



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/704,769	11/03/2000	Shuning Wann	BHT/3111/127	4376

37819 7590 09/08/2004

WANG & PATEL, P.C.
1301 DOVE STREET, SUITE 1050
NEWPORT BEACH, CA 92660

EXAMINER

CALLAHAN, PAUL E

ART UNIT	PAPER NUMBER
----------	--------------

2137

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/704,769

Applicant(s)

WANN, SHUNING

Examiner

Paul Callahan

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-20 are pending in this application and have been examined.

Specification

2. Claims 2 and 3 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The claims merely define the process of encryption and decryption previously defined in claim 1.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-6 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 contains the phrase "...without compromising overall system performance." It is not clear from the context of the claim language what the applicant contemplates as a "compromise" or degradation of "system performance." It is also not clear what the applicant contemplates the term "system performance" to encompass.

Claims 2-6 are dependent on claim 1 and are thereby rejected on the same basis as that claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by van Rumpt et al. US 5,513,262.

As for claims 1-6, Van Rumpt teaches a cryptographic device adapted to perform data transparent encryption and decryption (abstract) on at least on data stream flowing between at least one data generating device and one data storing device without compromising overall system performance (abstract, col. 3 lines 20-35).

7. Claims 7-21 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Harrison et al. US 6,081,895.

As for claims 7, 11, 15, 19, 20, and 21, Harrison teaches a cryptographic device (abstract) comprising: at least one data stream interceptor (abstract: "channel for processing data units"); a main controller receiving input from said at least one data stream interceptor (fig. 1 item 100); a least one data generating controller adapted to

Art Unit: 2137

perform at least one data transfer protocol with at least one data generating device on command from said main controller (fig. 1 item 12, col. 5 lines 26-37); at least one data storage controller adapted to perform at least one data transfer protocol with at least one data storage device on command from said main controller (fig. 2 items 124, 126, 128, col. 7 lines 1-10); and east one cipher engine adapted to transparently encrypt at least one data stream flowing between said at least one data generating device and said at least one data storage device on command from said controller (fig. 1 item 14).

As for claim 8, 12, and 16, Harrison teaches a cipher engine that is operative coupled between at least one input buffer and at least one output buffer (fig. 1 items 13-15, col. 3 lines 45-50).

As for claims 9, 10, 13, 14, 17 and 18, Harrison teaches at least one input and out buffer that receives data from a data-generating device and a data storage device (fig. 1 items 13-15, col. 3 lines 45-50).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (703) 305-1336. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Andrew Caldwell, can be reached on (703) 306-3036. The fax phone number for the organization where this application or proceeding is assigned is: (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or

Application/Control Number: 09/704,769

Page 5

Art Unit: 2137

proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

9/3/04

Paul Callahan